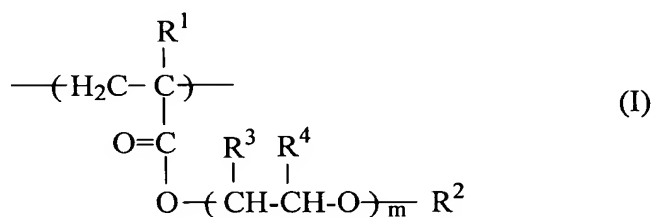


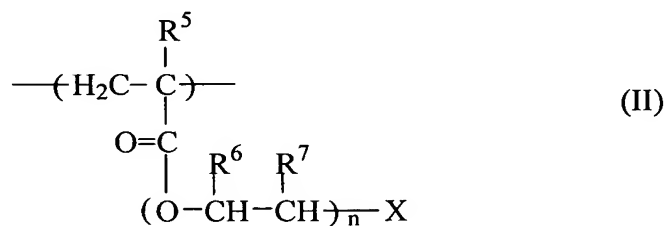
# CLAIMS

1. A process for producing a solid polymer electrolyte wherein at least components (a) and (b) below are reacted:

(a) an acrylic copolymer comprising repeating units (Structural Unit I) represented by formula (I) below and repeating units (Structural Unit II) represented by formula (II) below in a molar ratio of from 1/5 to 1,000/1 and having a number average molecular weight of from 1,000 to 1,000,000



wherein  $\text{R}^1$  is hydrogen or an alkyl group having 1 to 5 carbon atoms,  $\text{R}^2$  is an alkyl group having 1 to 5 carbon atoms,  $\text{R}^3$  and  $\text{R}^4$  are each independently hydrogen or an alkyl group having 1 to 5 carbon atoms and are the same or different from each other, and m is an integer of from 0 to 100, and



wherein  $R^5$  is hydrogen or an alkyl group having 1 to 5 carbon atoms,  $R^6$  and  $R^7$  are each independently hydrogen or an alkyl group having 1 to 5 carbon atoms and are the same or different from each other,  $n$  is an integer of from 1 to 100, and  $X$  is an isocyanate or hydroxyl group; and

(b) a compound represented by formula (III)



wherein  $R^8$  is a divalent hydrocarbon group having 1 to 20 carbon atoms,  $Y$  is an isocyanate or hydroxyl group provided that when  $X$  in formula (II) is an isocyanate group,  $Y$  is a hydroxyl group and that when  $X$  is a hydroxyl group,  $Y$  is an isocyanate group.